

HAER  
CAL  
52-TEHAMA,  
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## HISTORIC AMERICAN ENGINEERING RECORD

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HAER No. CA-221

Southern Pacific Railroad Shasta Route, Bridge Number 210.52  
(Southern Pacific Railroad Shasta Route, Sacramento River 1st Crossing)  
Milepost 210.52  
Tehama vicinity  
Tehama County  
California

For written information regarding the Shasta Route, please refer to Southern Pacific Railroad Shasta Route (HAER No. CA-220). Note also that all directional references to the bridge are given in Southern Pacific Railroad terminology. Headquartered in San Francisco, the S.P. considered all trains heading *away* from San Francisco to be eastbound, all trains heading *toward* San Francisco to be westbound, regardless of actual cardinal direction. Thus a train heading north from Los Angeles to Portland would be westbound until it passed San Francisco, at which time it would become eastbound. Similarly, the railroad referred to all tunnels and other structures along its lines in the same fashion, with tunnels always having west and east portals. Direction of view in the captions will indicate cardinal direction.

Documentation: 14 photographs (1997)  
6 photocopies of historic plans

Ed Andersen, Photographer  
John Snyder, Field Director

### PHOTOGRAPHS

- CA-221-1 West end of Bridge Number 210.52, oblique contextual view to northwest showing the downstream side, 90mm lens. The long trestle approach to the west end of this bridge precluded safe accessibility for axial photography of the west portal.
- CA-221-2 West end of Bridge Number 210.52, oblique view to southwest showing the upstream side, 90mm lens.
- CA-221-3 Oblique view of downstream side of Bridge Number 210.52, view to northwest, 90mm lens.
- CA-221-4 Downstream side of Bridge Number 210.52, view to north showing the 1898 swing span and circular center pier, 90mm lens. This photo was made from an adjacent highway bridge.
- CA-221-5 Oblique view of downstream side of Bridge Number 210.52, view to northeast, 135mm lens. The swing span dates from 1898, while the approach spans date from 1929.
- CA-221-6 East portal of Bridge Number 210.52, contextual view to east, 210mm lens. This structure underscores the inconsistencies with the railroad's use of "east" and "west"

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as opposed to actual direction; in this case the railroad "east" end of the bridge faces actual west.

- CA-221-7 East portal of Bridge Number 210.52, view to east, 210mm lens. The span nearest the camera is one of the 1929 approach spans, while the 1898 swing span is visible just beyond.
- CA-221-8 East portal of 1898 swing span of Bridge Number 210.52, view to east, 210mm lens. Note the difference in the latticed portal strut as compared to that of the 1929 approach span in the previous photo.
- CA-221-9 Oblique view of upstream side of Bridge Number 210.52, view to southeast, 135mm lens.
- CA-221-10 Detail, axial view of underfloor of one of the western 1929 approach spans of Bridge Number 210.52, view to west, 135mm lens. Visible are bottom chords, diagonal bottom laterals, longitudinal stringers, and transverse floor beams.
- CA-221-11 Detail, circular center pier of 1898 swing span and remnants of operating machinery of Bridge Number 210.52, view to north, 380mm lens.
- CA-221-12 Detail, remnants of operating machinery on 1898 swing span of Bridge Number 210.52, view to east-southeast, 210mm lens.
- CA-221-13 Detail, portal connection point of 1898 swing span, Bridge Number 210.52, view to northeast, 210mm lens. Visible are the latticed portal strut at right, inclined end post, vertical hanger, top chord at left, paired diagonal eyebars, and one end of a top lateral.
- CA-221-14 Detail, typical approach span fixed bearing atop stone masonry pier, view to northwest, 210mm lens.

**PHOTOCOPIES OF HISTORIC PLANS** (Original plans are held by Union Pacific Railroad, 1416 Dodge Street, Omaha, Nebraska.)

- CA-221-15 "Southern Pacific R.R., One 236'-0" Bet. End Pins S. Tr. Thro'. Draw Bridge over Sacramento River at Tehama, The Phoenix Bridge Co., Phoenixville, Pa., Jan'y 19th 98, Dwg. 585."
- CA-221-16 "Erection Plan for 1 236' Single Tr. Thro' Draw Span over Sacramento River at Tehama Cal., Southern Pacific Co., The Phoenix Bridge Co., City Order: 952, Drawing No.: 2, Scale: 3/16' to 1', Engineer: F.G. Lippert, Drawn by: F.E. King, Date: May 20 98."
- CA-221-17 "Plan of Shafting and Flooring for 1 - 236'-0" Single Tr. Thro Draw Span over Sacramento River at Tehama Cal, So. Pac. Co., Phoenix Bridge Co. C.O. 952, Drwg #4, Eng. F.G.L., Scale 1/4" = 1', May 21st, 1898."

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- CA-221-18 "Plan of Turntable for 1 - 236' Single Track Thro' Draw span over Sacramento River at Tehama Cal., Southern Pacific Co., The Phoenix Bridge Co., City Order: 953, Drawing No.: 3, Scale: 1/2" = 1', Engineer: F.G. Lippert, Draftsman: F.E. King, Date: May 24 98."
- CA-221-19 "Southern Pacific Company, Pacific Lines, Remodeling of Piers For Renewal of Br. 210-C Near Tehama, Sac. Division, Scale 1" = 40' & 1/4" = 1"-0", Sept. 1927, M.W.D., Drawing 5935, Sheet 2."
- CA-221-20 "Erection Plan, Renewal of Bridge 210 C over Sacramento River near Tehama, Calif., 3 140'-0" S. T. Riveted Thru Truss Spans, 17'-9" C. to C. Trusses, 31'-0" C. To C. Chords, U.S.S. P. Co. Pacific Coast Dept., Order No. SF 604, Southern Pacific Co., Order No. 51168-P-38428, 1925 Specifications, Scale in. ft., American Bridge Co., Ambridge Plant, Dwgs. made at Ambridge No. 5 in charge of Reehl, Detailed by W.F.R., Date, Checked by L.A.E., Date 1/5/29, Fld. conn. chk. by ENN, Date 3/9/29, Order No. F5659, Sheet No. E3."